

APRIL/MAY 2023

CEBT63A — FORENSIC SCIENCE

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define : forensic science
2. Outline the types of crime.
3. List the body fluids.
4. What is DNA profiling?
5. Define flurophore.
6. What are biosensors?
7. Define somatoscopy.
8. Outline the uses of cratometry.
9. What is DNA microarray?
10. Explain Ballistics.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Identify the significance of forensic science to human society.

Or

- (b) Examine types of crime and its cause.

12. (a) Describe the immunochromatographic test for semen analysis.

Or

- (b) Comment on RT-PCR technique.

13. (a) Identify the approaches of ELISA in forensic science.

Or

- (b) Examine why is hair considered class evidence.

14. (a) Organize applications of Somatometry.

Or

- (b) Examine the importance of cranimetry in determination of age and sex.

15. (a) What is a "questioned document"? Explain with a suitable example.

Or

- (b) Illustrate the structural component of compound microscopy.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about on sociological aspects of crime and criminals in society.

17. What technique will you prefer if you have limited sample. Explain the technique.

18. Explain the epigenetic approach for detects cell and tissue specific features of DNA.

19. Elaborate the methods of skeletal age estimation.

20. Discuss the advantages of STR fingerprinting over VNTR fingerprinting.